

Contents

Marine Chemistry, Vol. 63 (1998 / 1999)

Research Papers

A study of the diurnal variation of biogenic volatile halocarbons A. Ekdahl, M. Pedersén and K. Abrahamsson	1
Assessment of the quality of the shipboard measurements of total alkalinity on the WOCE Hydrographic Program Indian Ocean CO ₂ survey cruises 1994–1996 F.J. Millero, A.G. Dickson, G. Eiseid, C. Goyet, P. Guenther, K.M. Johnson, R.M. Key, K. Lee, D. Purkerson, C.L. Sabine, R.G. Schottle, D.W.R. Wallace, E. Lewis and C.D. Winn	9
Coulometric total carbon dioxide analysis for marine studies: assessment of the quality of total inorganic carbon measurements made during the US Indian Ocean CO ₂ Survey 1994–1996 K.M. Johnson, A.G. Dickson, G. Eiseid, C. Goyet, P. Guenther, R.M. Key, F.J. Millero, D. Purkerson, C.L. Sabine, R.G. Schottle, D.W.R. Wallace, R.J. Wilke and C.D. Winn	21
An interlaboratory comparison for the measurement of biogenic silica in sediments D.J. Conley	39
CO ₂ fluxes from a coastal transect: a time-series approach S.E. Boehme, C.L. Sabine and C.E. Reimers	49
Temporal variation of the sea surface CO ₂ /carbonate properties in the Arabian Sea C. Goyet, N. Metzl, F. Millero, G. Eiseid, D. O'Sullivan and A. Poisson	69
Effect of pH on the measurement of biogenic silica M. Schlüter and D. Rickert	81
Photochemistry of petroleum. I. Systematic study of a brazilian intermediate crude oil D.E. Nicodem, C.L.B. Guedes and R.J. Correa	93
Speciation and sorptive behaviour of nickel in an organic-rich estuary (Beaulieu, UK) A. Turner, M. Nimmo and K.A. Thuresson	105
Use of gel probes for the determination of high resolution solute distributions in marine and estuarine pore waters R.J.G. Mortimer, M.D. Krom, P.O.J. Hall, S. Hulth and H. Ståhl	119
Carbohydrates in phytoplankton and freshly produced dissolved organic matter A. Biersmith and R. Benner	131
An improved method for rapid preconcentration and determination of bioactive trace metals in seawater using solid phase extraction and high resolution inductively coupled plasma mass spectrometry M.L. Wells and K.W. Bruland	145
Nutrients in the Mediterranean Sea, mass balance and statistical analysis of concentrations with respect to environ- mental change J.P. Béthoux, P. Morin, C. Chaumery, O. Connan, B. Gentili and D. Ruiz-Pino	155

Abundance of dissolved polysaccharides in the oxygen minimum layer of the Northern Indian Ocean N.B. Bhosle, P.V. Bhaskar and S. Ramachandran	171
Erratum	183
 <i>Research Papers</i>	
Estuarine trace metal distributions in Galveston Bay: importance of colloidal forms in the speciation of the dissolved phase L.-S. Wen, P. Santschi, G. Gill and C. Paternostro	185
Theoretical considerations about the reactions of calcification in sea water C. Copin Montégut and G. Copin Montégut	213
Thermogravimetric properties of aquatic humic substances V.I. Esteves and A.C. Duarte	225
Surfactant components of marine organic matter as agents for biogeochemical fractionation and pollutant transport via marine aerosols C. Oppo, S. Bellandi, N. Degli Innocenti, A.M. Stortini, G. Loglio, E. Schiavuta and R. Cini	235
Monthly profiles of DOC, mono- and polysaccharides at two locations in the Trondheimsfjord (Norway) during two years K.Y. Børsheim, S.M. Mykkestad and J.-A. Sneli	255
Peptide decomposition by extracellular hydrolysis in coastal seawater and salt marsh sediment S. Pantoja and C. Lee	273
Biomarkers as organic-carbon-source and environmental indicators in the Late Quaternary Arctic Ocean: problems and perspectives K. Fahl and R. Stein	293
Heavy metals in particulate matter and sediments in the southern Barcelona sedimentation system (North-western Mediterranean) P. Puig, A. Palanques, J.A. Sanchez-Cabeza and P. Masqué	311
Metal-sulfide complexation in seawater R. Al-Farawati and C.M.G. van den Berg	331
 <i>Author Index, Vol. 63</i>	353
 <i>Contents Vol. 63</i>	357